

## Typhoon (TY) 04W (Chan-Hom)\*



First Poor : 0600Z 18 May 03

First Fair : 1000Z 18May 03

First TCFA : 1500Z 18May 03

First Warning : 0000Z 19 May 03

Last Warning : 0000Z 27 May 03

Max Intensity : 115 kts, gusts to 140 kts

Landfall : NONE

Total Warnings : 33

Remarks:

1) Typhoon (TY) 04W was initially detected as persistent deep convection over a broad low level circulation center (LLCC) and reached warning criteria within 18 hours, at 0000Z on 19 May. An Air Force weather reconnaissance flight was flown into this cyclone just after the first warning was issued while the cyclone was still broad and difficult to locate with satellite fixes. This flight provided center fix and wind information with 40 knot winds near the center on a 30 second average.

TY 04W tracked provided poleward towards a weakness in the low to mid-level steering ridge by a migratory shortwave trough. Intensification for this cyclone was very close to one Dvorak T-number/day from the initial warning until approximately 1800Z on 23 May, when TY 04W reached maximum intensity. Subsequently, maximum intensity was maintained for 30 hours as the system passed the ridge axis moved more north-northeastward while accelerating.

After 0000Z on 25 May, TY 04W began to decrease in intensity rapidly as it increased track speed towards a shortwave trough to the northeast. Dry air entrainment was noted by 0600Z on 26 May in microwave satellite imagery as the cyclone began extratropical transition. TY 04W completed extratropical transition by 0000Z on 27 May, at which time a final warning was issued.

2) FEMA damage assessments indicated Chuuk sustained some damage to homes and food crops due to heavy rain as TY 04W passed near the island. Storm intensity was approximately 35 to 45 knots, with Chuuk experiencing winds of 35 to 38 knots as the system moved northwest of the island.

\*Named by WMO designated RSMC

# Statistics for JTWC on TY04W

Statistics for JTWC on TY04W																					
	WRN	BEST TRACK			POSITION ERRORS								WIND ERRORS								
DTG	NO.	LAT	LONG	wind	00	12	24	36	48	72	96	120	00	12	24	36	48	72	96	120	
03051800		4.0N	147.9E	15																	
03051806		4.6N	148.2E	15																	
03051812		5.2N	148.6E	20																	
03051818		5.8N	149.0E	20																	
03051900	1	6.3N	149.3E	25	26	88	147	132	112	160	197	290	0	-5	5	5	0	0	-30	-50	
03051906	2	6.7N	149.8E	35	8	49	27	30	27	128	231	313	0	10	20	5	15	15	-5	-20	
03051912	3	6.8N	150.4E	35	26	38	6	13	58	179	251	394	0	10	10	5	15	10	-20	-25	
03051918	4	6.9N	150.8E	35	66	61	66	104	160	257	338	516	0	10	0	10	15	25	-40	-25	
03052000	5	7.3N	151.0E	35	0	8	19	86	132	249	336	512	0	5	5	15	15	5	-35	-25	
03052006	6	7.7N	150.8E	35	18	18	19	80	118	185	282	495	0	-10	0	5	10	-15	-40	0	
03052012	7	8.0N	150.6E	45	5	0	69	119	164	242	322	573	10	10	20	25	35	10	0	10	
03052018	8	8.4N	150.4E	55	26	71	133	179	218	288	474	765	0	10	20	30	50	10	0	60	
03052100	9	8.8N	150.3E	55	11	93	143	182	212	299	520	794	0	15	25	45	35	10	5	60	
03052106	10	9.4N	150.6E	55	21	76	110	144	166	287	516	816	0	10	25	40	20	0	25	60	
03052112	11	10.3N	150.9E	55	23	30	54	84	141	247	489	722	0	0	15	10	10	-10	15	50	
03052118	12	11.1N	151.0E	60	5	18	37	64	126	260	453	729	0	10	20	10	-5	-10	45	60	
03052200	13	11.8N	151.1E	65	5	35	65	114	163	289	486	830	0	10	5	0	0	-10	50	60	
03052206	14	12.6N	151.2E	65	8	21	55	98	133	249	523	931	0	10	-10	-20	-15	10	35	30	
03052212	15	13.3N	151.3E	65	8	21	64	103	148	298	462		0	-10	-20	-25	-20	0	20		
03052218	16	14.2N	151.3E	65	0	17	46	64	129	239	411		5	-30	-45	-40	-30	20	40		
03052300	17	14.9N	151.2E	85	0	48	57	79	144	273			0	-15	-15	-15	-25	20			
03052306	18	15.6N	151.2E	95	0	44	74	112	172	244			0	-5	5	-5	10	35			
03052312	19	16.4N	151.4E	105	0	13	46	111	174	296			0	0	0	-5	10	30			

03052318	20	17.3N	151.5E	115	8	27	50	57	69	197			0	10	5	10	20	15		
03052400	21	18.2N	151.6E	115	0	21	65	85	127	283			0	-10	-15	-10	-5	15		
03052406	22	19.1N	152.1E	115	17	53	49	79	166				0	-15	-5	5	0			
03052412	23	20.0N	152.6E	115	8	39	44	60	188				0	-15	-5	5	0			
03052418	24	21.0N	153.8E	115	6	20	32	16	44				0	5	15	10	10			
03052500	25	22.4N	154.7E	115	5	16	41	27	46				0	0	10	5	10			
03052506	26	23.8N	155.6E	90	13	32	21	78	57				0	10	10	10	0			
03052512	27	25.2N	156.6E	90	0	27	66	91					0	5	0	10				
03052518	28	26.8N	157.5E	65	8	25	78	47					0	-5	10	10				
03052600	29	28.3N	158.6E	65	5	53	90						0	0	10					
03052606	30	29.7N	160.4E	55	7	5	121						0	5	5					
03052612	31	31.0N	162.3E	55	31	134							0	5						
03052618	32	32.4N	164.5E	45	28	209							0	-5						
03052700	33	33.9N	166.9E	45	11								0							
03052706		36.1N	170.9E	45																
			AVERAGE		13	44	63	87	131	245	393	620	0	9	12	14	15	13	25	38
			BIAS										0	1	4	5	7	9	4	18
			# CASES		33	32	30	28	26	21	16	14	33	32	30	28	26	21	16	14

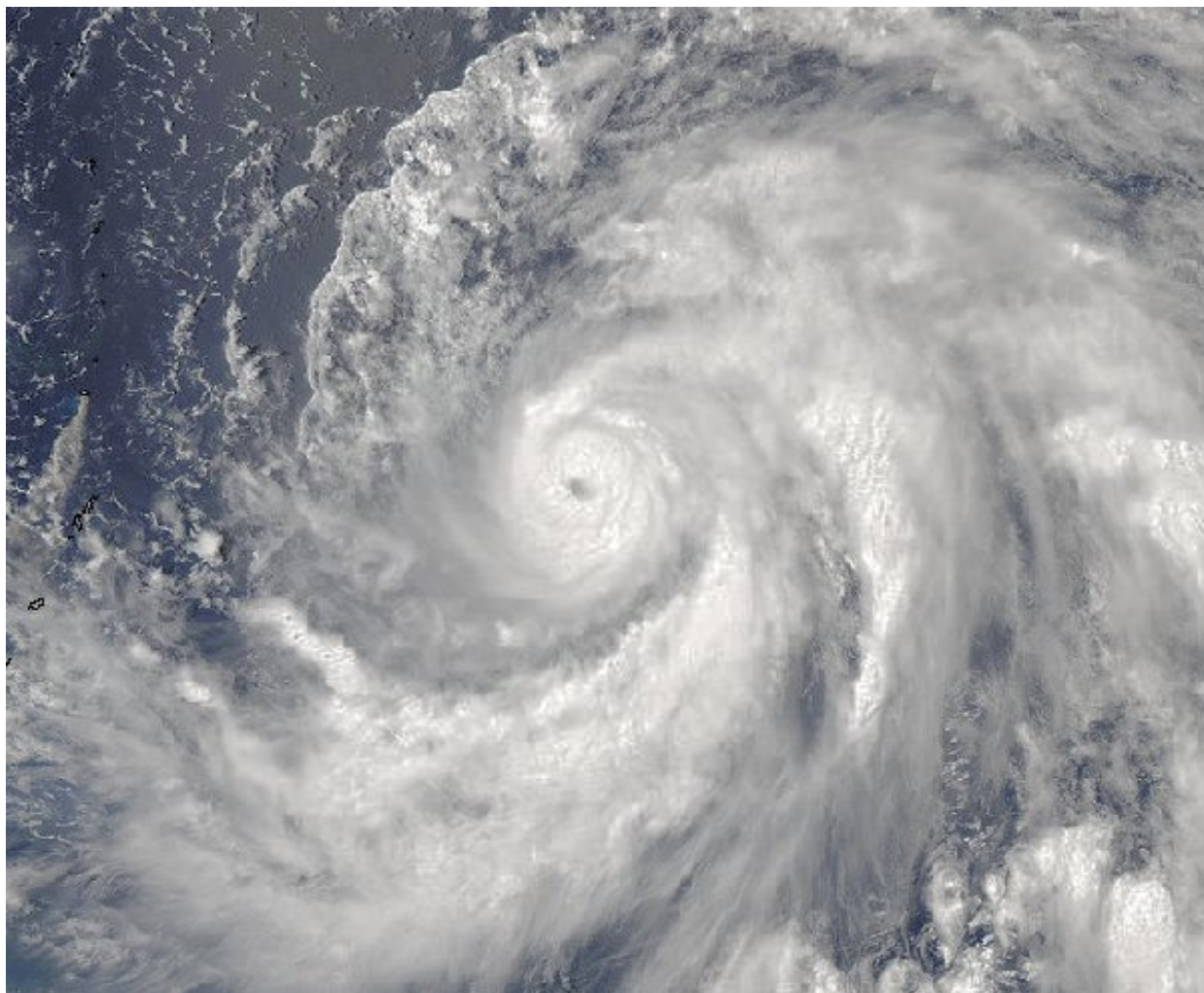


Figure 1-04W-1. 230315Z May 2003 MODIS true-color image of TY 04W (Chan-Hom), located 390nm east-northeast of Guam, with an intensity of 85 knots.

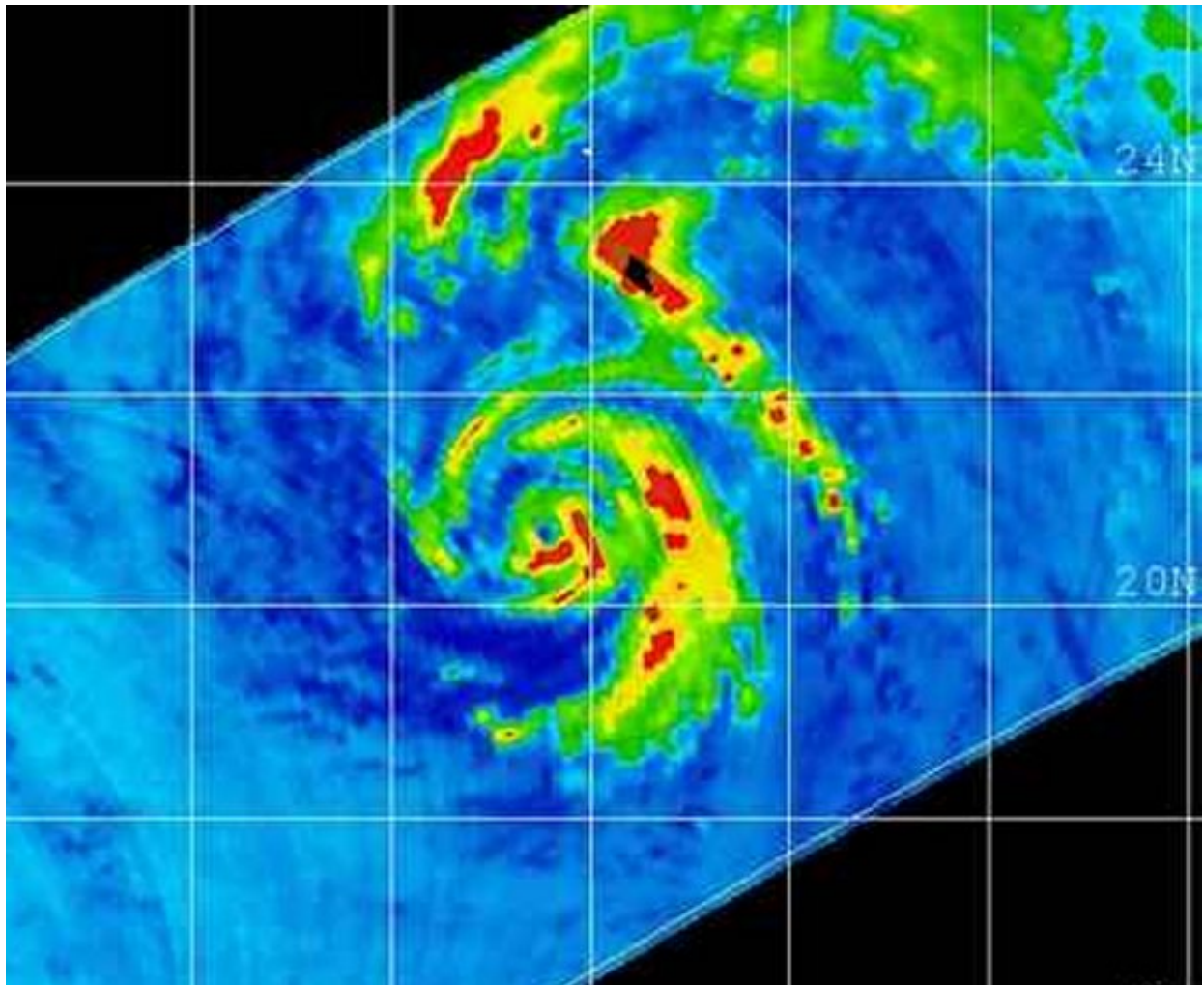
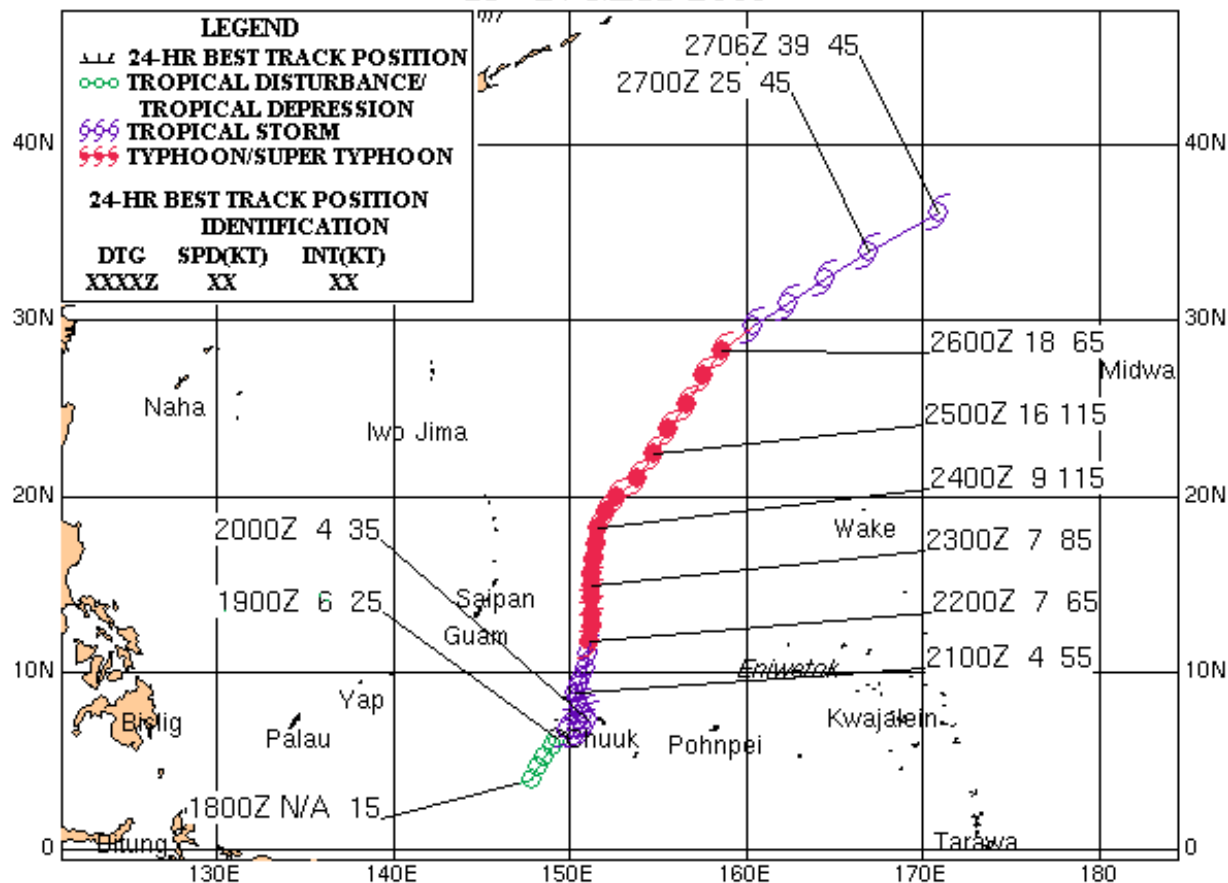


Figure 1-04W-2. 241519Z May 2003 85 GHz TRMM image of TY 04W (Chan-hom), the eye was located 560 nm northeast of the Saipan, with a peak intensity of 115 knots.

# TYPHOON 04W (CHAN-HOM)

18 - 27 MAY 2003



# Time Intensity for 04W

Intensity (kts)

